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Abstract

A method and apparatus are provided for extending a dynamic range of an X-ray imaging system. The method includes the steps of detecting a plurality of X-ray beams, amplifying each of the plurality of detected X-ray beams using a first gain value, amplifying each of the plurality of detected X-ray beams using a second gain value, and forming an X-ray image from the detected X-ray beams amplified by the first gain value and from the detected X-ray beams amplified by the second gain value.